

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of the Claims:

1. (Currently Amended) A method for providing an electronic selection of at least one color ink formula that is suitable to produce a color for a colored print, wherein producing the color is based on at least one criteria, the method comprising:

- (a) electronically providing a plurality of colors and a plurality of criteria;
- (b) electronically providing a plurality of color ink formulas, each of the plurality of color ink formulas capable of defining a color ink suitable for producing at least one color for at least one colored print and based on the at least one criteria;
- (c) electronically making a color selection from the plurality of colors;
- (d) electronically making a selection of at least one criteria from the plurality of criteria; and
- (e) electronically matching the selected color and the at least one selected criteria thereby allowing for the electronic selection of the at least one color ink formula that is suitable to produce the color,

wherein the method is halted and a user notified if the method is incapable of electronically matching the selected color and the at least one selected criteria, thereby allowing for the electronic selection of the at least one color ink formula that is suitable to produce the color.

2. (Original) The method of claim 1, further comprising:

electronically selecting a suitable color ink formula in step e; and

electronically transmitting to a color product development specialist the color ink formula.

3. (Original) The method of claim 2, wherein the color product development specialist is at least one of a manufacturer, separator, printer, designer and ink manufacturer.

4. (Original) The method of claim 1, wherein the criteria includes at least one of a substrate, financial cost, availability and pigment formulation.

5. (Original) The method of claim 1, wherein the criteria includes the ability for a color to resist at least one of sunlight, water, solvent, acid, alkali, temperature, humidity, abrasion, cracking, bending, light and ultraviolet radiation.

6. (Original) The method of claim 1, wherein the steps a-e occur over a communication network.

7. (Original) The method of claim 6, wherein the communication network is the Internet.

8. (Original) The method of claim 6, wherein the communication network is an intranet.

9 (Original) The method of claim 1, further comprising storing color information in an electronic color library, the color information representing the plurality of colors.

10. (Original) The method of claim 9, wherein the color information is formatted as at least one spectral data, CIEXYZ, CIELAB, CIELUV, CIEUVW, color space, chromaticity coordinates xy , $u''v''$ and uv , computer graphics triplets including RGB, CMYK, HLS, HIS, HSV and HVC, Munsell notation, Swedish Natural Color System notation, ColorCurve notation, RAL

notation, Pantone color number, DIC color number, opal tone, DIN color notation, Color Marketing Group color name, and Color Association of the United States color name.

11. (Original) The method of claim 9, further comprising providing an assigned name for each color of the plurality of colors.

12. (Original) The method of claim 9, wherein the electronic color library resides on at least one site processor.

13. (Original) The method of claim 9, further comprising displaying an electronic palette of the plurality of colors represented by the color information stored in the electronic color library.

14. (Original) The method of claim 1, wherein the step of providing the plurality of colors comprises displaying an electronic palette.

15. (Currently Amended) A method for electronically providing a selection of color ink formulas, the method comprising:

- (a) receiving color electronic information, the electronic color information representing a plurality of colors;
- (b) receiving electronic criteria information, the electronic criteria information representing a plurality of criteria having an impact on at least one of the plurality of colors;
- (c) receiving electronic color ink formula information, the electronic color ink formula information representing formulas for making color ink suitable for

producing the plurality of colors and based on at least one of the plurality of criteria;

(d) providing an electronic color selection, the electronic color selection representing a choice of one of plurality of colors; and

(e) providing the selection of electronic color ink formulas that is suitable to produce a color based on the electronic color selection and based on the at least one of the plurality of criteria,

wherein the method is halted and a user notified if the method is incapable of providing the selection of electronic color ink formulas that is suitable to produce a color based on the electronic color selection and based on the at least one of the plurality of criteria.

16. (Original) The method of claim 15, further comprising electronically transmitting to at least one color product development specialist an electronic color ink formula corresponding with the selection of electronic color ink formulas.

17 (Original) The method of claim 16, wherein the at least one color product development specialist is at least one of a manufacturer, separator, printer, designer and ink manufacturer.

18. (Original) The method of claim 15, wherein the criteria includes a substrate.

19. (Original) The method of claim 15, wherein the criteria includes the ability for a color to resist at least one of water, solvent, acid, alkali, temperature, humidity, abrasion, crocking, bending, light and ultraviolet radiation.

20. (Original) The method of claim 15, wherein the steps a-e occur over a communication network.

21. (Original) The method of claim 20, wherein the communication network is the Internet.

22. (Original) The method of claim 20, wherein the communication network is an intranet.

23. (Original) The method of claim 15, further comprising storing the electronic color information in an electronic color library.

24. (Original) The method of claim 23, wherein the electronic color information is formatted as at least one of spectral data, CIEXYZ, CIELAB, CIELUV, CIEVW, color space, chromaticity coordinates $xy, u''v''$ and uv , computer graphics triplets including RGB, CMYK, HLS, HIS, HSV and HVC Munsell notation, Swedish Natural Color System notation, ColorCurve notation, RAL notation, Pantone color number, DIC color number, opal tone, DIN color notation, Color Marketing Group color name, and Color Association of the United States color name.

25. (Original) The method of claim 23, further comprising providing an assigned name for each color of the plurality of colors.

26. (Original) The method of claim 23, wherein the electronic color library resides on at least one site processor.

27. (Original) The method of claim 15, wherein the step of providing a color selection comprises providing an electronic color palette.

28. (Currently Amended) A method for electronically selecting at least one color ink formula that is suitable to produce a color for a colored print, wherein producing the color is based on at least one of a plurality of criteria, the method comprising:

- (a) receiving a physical sample of the color;
- (b) generating electronic color information from the physical sample; the electronic color information representing the color;
- (c) electronically providing the plurality of criteria;
- (d) electronically providing at least one color ink formula, each of the at least one color ink formula capable of defining a color ink suitable for producing the color for the colored print and based on at least one of the plurality of criteria;
- (e) making an electronic selection of at least one criteria from the plurality of criteria; and
- (f) electronically matching the electronic color information with the selected criteria, thereby allowing for the electronic selection of the at least one suitable color ink formula,

wherein the method is halted and the user notified if the method is incapable of electronically the electronic color information with the selected criteria thereby allowing for the electronic selection of the at least one suitable color ink.

29. (Original) The method claim 28, further comprising electronically transmitting to at least one color product development specialist an electronic color ink formula corresponding with the selection of electronic color ink formula.

30. (Original) The method of claim 28, wherein the criteria includes at least one of a substrate, availability, financial cost and pigment formulation.

31. (Original) The method of claim 28, wherein the criteria includes the ability for a color to resist at least one of water, solvent, acid, alkali, temperature, humidity, abrasion, cracking, bending, light and ultraviolet radiation.

32. (Currently Amended) A system for electronically providing a selection of a plurality of color ink formulas to produce a color for a colored print and based on at least one of a plurality of criteria, the system comprising: ~~the method comprising:~~

- (a) a memory, the memory electronically providing a plurality of colors and the plurality of criteria, the memory further electronically providing a plurality of color ink formulas, each of the plurality of color ink formulas capable of defining a color ink suitable for producing at least one color for a colored print and based on at least one of the plurality of criteria;
- (b) an electronic color selection module, the electronic color selection module providing an interface to make an electronic color selection from the plurality of colors;
- (c) an electronic criteria selection module, the electronic criteria selection module providing an interface to make an electronic selection of at least one criteria from the plurality of criteria; and
- (d) an electronic matching module, the electronic matching module matching the selected color and the at least one selected criteria thereby allowing for the electronic selection of the at least one suitable color ink formula,

wherein the method is halted and the user notified if the method is incapable of matching the selected color and the at least one selected criteria thereby allowing for the electronic selection of the at least one suitable color ink formula.

33. (Original) The system of claim 32, further comprising a communication network.

34. (Original) The system of claim 33, wherein the communication network is the internet.

35. (Original) The system of claim 33, wherein the communication network is an intranet.

36. (Original) The system of claim 32, further comprising a color ink formula transmission module, the color ink formula transmission module, the color ink formula transmission module transmitting at least one of the plurality of color ink formulas to at least one color product development specialist.

37. (Original) The system of claim 32, wherein the electronic color information is formatted as at least one of spectral data, CIEXYZ, CIELAB, CIELUV, CIEUVW, color space, chromaticity coordinates xy , $u''v''$ and uv , computer graphics triplets including RGB, CMYK, HLS, HIS, HSV and HVC MUNSSELL NOTATION Swedish Natural Color System notation, ColorCurve notation, RAL notation, Pantone color number, DIC color number, opal tone, DIN, color notation, Color Marketing Group color name, and Color Association of the United States color name.

38. (Original) The system of claim 32, further comprising an electronic color display module that displays the electronic color information as a palette of colors.

39. (Currently Amended) A method for providing an electronic selection of at least one colorant formula that is suitable to produce a color for a colored product and based on at least one criteria, the method comprising:

- (a) electronically providing a plurality of colors and a plurality of criteria;
- (b) electronically providing a plurality of colorant formulas, each of the colorant formulas capable of defining a colorant suitable for producing at least one colored product, wherein the producing the colored product is based on the at least one criteria;
- (c) making an electronic color selection from the plurality of colors;
- (d) making an electronic selection of at least one criteria from the plurality of criteria;
and
- (e) electronically matching the selected color and the selected criteria thereby allowing for the electronic selection of the at least one colorant formula that is suitable to produce the color,

wherein the method is halted and a user notified if the method is incapable of electronically matching the selected color and the selected criteria thereby allowing for the electronic selection of the at least one colorant formula that is suitable to produce the color.

40. (Original) The method of claim 39, further comprising:

- electronically selecting a suitable colorant formula in step e; and
- electronically transmitting to at least one color product development specialist a colorant formula corresponding with the electronic selection of the colorant formula.

41. (Original) The method of claim 40, wherein the color product development specialist is at least one of a manufacturer, separator, printer, designer and colorant manufacturer.

42. (Original) The method of claim 39, wherein the criteria includes a substrate.

43. (Original) The method of claim 39, wherein the criteria includes the ability for a color to resist at least one of sunlight, water, solvent, acid, alkali, temperature, humidity, abrasion, cracking, bending, light and ultraviolet radiation.

44. (Original) The method of claim 39, wherein the criteria includes at least one of financial cost, availability and pigment formulation.

45. (Original) The method of claim 39, wherein the steps a-e occur over a communication network.

46. (Original) The method of claim 45, wherein the communication network is the Internet.

47. (Original) The method of claim 45, wherein the communication network is an intranet.

48. (Original) The method of claim 39, further comprising storing electronic color information in an electronic color library, the electronic color information representing the plurality of colors.

49. (Original) The method of claim 48, wherein the electronic color information is formatted as at least one of spectral data, CIEXYZ, CIELAB, CIELUV, CIEUVW, color space, chromaticity coordinates xy, x''v'' and uv, computer graphics triplets including RGB, CMYK,

HLS, HIS, HSV and HVC, Munsell notation, Swedish Natural Color System notation, ColorCurve notation, RAL notation, Pantone color number, DIC color number, opal tone, DIN color notation, Color Marketing Group color name, and Color Association of the United States color name.

50. (Original) The method of claim 48, further comprising providing an assigned name for each color of the plurality of colors.

51. (Original) The method of claim 48, wherein the electronic color library resides on at least one site processor.

52. (Original) The method of claim 48, further comprising displaying an electronic palette of the plurality of colors represented by the electronic color information stored in the electronic color library.

53. (Currently Amended) A method for electronically providing a selection of colorant formulas, the method comprising:

- (a) electronically receiving color information, the color information representing a plurality of colors;
- (b) electronically receiving criteria information, the criteria information representing a plurality of criteria having an impact on the at least one plurality of colors;
- (c) electronically receiving colorant information, the colorant information representing formulas for making at least one colorant suitable for producing the plurality of colors and based on at least one of the plurality criteria;
- (d) electronically providing a color selection, the color selection representing a choice of one of the plurality of colors; and

(e) electronically providing the selection of colorant information that is suitable to produce a color and based on the color selection and based on the plurality of criteria,
wherein the method is halted and a user notified if the method is incapable of electronically providing the selection of colorant information that is suitable to produce a color and based on the color selection and based on the plurality of criteria.

54. (Original) The method of claim 53, further comprising electronically transmitting to at least one color product development specialist a colorant formula corresponding with the selection of colorant information.

55. (Original) The method of claim 54, wherein the at least one color product development specialist is at least one of a manufacturer, separator, printer, designer and ink manufacturer.

56. (Original) The method of claim 53, wherein the criteria includes a substrate.

57. (Original) The method of claim 53, wherein the criteria includes the ability for a color to resist at least one of water, solvent, acid, alkali, temperature, humidity, abrasion, crocking, bending, light and ultraviolet radiation.

58. (Original) The method of claim 53, wherein the steps a-e occur over a communication network.

59. (Original) The method of claim 58, wherein the communication network is the Internet.

60. (Original) The method of claim 58, wherein the communication network is an intranet.

61. (Original) The method of claim 53, further comprising storing the color information in an electronic color library.

62. (Original) The method of claim 61, wherein the color information is formatted as at least one of spectral data, CIEXYZ, CIELAB, CIELUV, CIEVW, color space, chromaticity coordinates xy , $u''v''$ and uv , computer graphics triplets including RGB, CMYK, HLS, HIS< HSV and HVC, Munsell notation, Swedish Natural Color System notation, ColorCurve notation, RAL notation, Pantone color number, DIC color number, opal tone, DIN color notation, Color Marketing Group color name, and Color Association of the United States color name.

63. (Original) The method of claim 53, further comprising providing an assigned name for each color of the plurality of colors.

64. (Original) The method of claim 61, wherein the electronic color library resides on at least one site processor.

65. (Original) The method of claim 53, further comprising displaying an electronic palette of the plurality of colors.